LICHENES PROPE HABANAM IN INSULA CUBA ANNO 1914 A CL. FRATRE ARSENE BROUARD LECTI

M. Bouly de Lesdain

Physcia integrata var. sorediosa Wainio.—ad arbores.

Placodium murorum var. **radiatum** (Hue) B. de Lesd., nom. nov.—ad saxa calcaria.

Caloplaca pyracea (Ach.) Th. Fr.—ad saxa calcaria.

Caloplaca pyracea var. **cubana** B. de Lesd. var. nov.—ad saxa calcaria. Thallus albidus tenuis levis areolatus; areolae minutae planae dispersae vel contiguae. Apothecia minuta rotunda circa 0.3 mm. lata primum concava margine thallino tenui saepe subcrenulato cincta, demum evanescente, dein plana, margine tenui proprio concolore integro non prominente cincta, tandem demisso. Sporae 8-nae polocoelae loculis tubulo junctis aut demum aetate loculis approximatis, 11–13 μ longae, 6–8 μ lat.

Lecanora chlarotera Nyl.; L. cinereo-carnea (Esch.) Wainio; et L. subgranulata Nyl.—ad arbores.

Toninia granosa (Tuck.) B. de Lesd., nom. nov. *Lecidia granosa* Tuck. Observ. Lichenol. **2**: 420.—ad saxa calcaria, No. 10880. Thallus K–, C–, KC–, cinereus diffracto-areolatus; areolae circa 1–1.5 mm latae, granulis minutis numerosis conglomeratisque formatae, circa 0.4 mm crassae (aut supra lapidem plus minutusve dispersae) sat contiguae aut rimis sat latis sejunctae. Apothecia nigra nuda supra areolas adnata, 1 mm. lata primum plana, margine tenui integro concoloreque cincta, dein convexa immarginataque. Epithecium obscure olivaceum, thecium incoloratum; hypothecium fuscum; paraphyses cohaerentes articulatae apice leviter inflatae; asci clavati, sporae 8-nae hyalinae fusiformes vel cylindraceae 1–3, rarius 4–, sept. 18–24 (30) μ long., 3.5–4 (6) μ lat. Gelat. hym. I coerulessit.

Buellia subdisciformis (Leight.) Wainio—ad arbores, cc.

Bacidia albescens (Arn.) Zw. forma et B. medialsis (Tuck.) B. de Lesd. nom. nov. *Biatora medialis* Tuck.—ad arbores.

Arthonia circumtincta Müll. Arg.; A. gregaria (Weig.) Krb., *A. cinnabarina* Wallr.; et A. polymorpha Ach.—ad arbores.

Opegrapha Bonplandii Fée; et var. abbreviata (Fée) Müll, Arg.—cc. ad arbores.

Opegrapha atra Pers. var. **cubana** B. de Lesd. var. nov.—lignicola, *No. 10768.* A specie non differt nisi spermatiis rectis vel subrectis longioribus, 7–9 μ long., 1 μ lat.

Graphis (Leucographis) Afzelii Ach.—ad arbores.

Gyrostomum scyphuliferum (Ach.) Fr.—ad arbores.

Gyrostomum scyphuliferum var. **macrosporum** B. de Lesd. var. nov.—ad arbores. Thallus albidhs orbicularis tenuis hypothallo tenuissimo cinctus. Apothecia sicut in typo. Epithecium fuscum granulosum, thecium et hypothe-

cium incolorata; paraphyses numerosae graciles ramoso-connexae; asci oblongi membrana sat tenui; sporae 8-nae persistenter hyalinae murales septibus transversalibus 10–13 halone indutae, utroque apice rotundatae aut obtusae 51–76 μ long., 15–20 μ lat. Gelat. hym. I dilute coerulescit, citoque fulvescit; sporae intense coeruelo-violacent.

Endopyrenium Brouardi B. de Lesd., sp. nov.—ad saxa calcaria, *No. 10774*. Thallus pallide cinereo-albus 1-2 cm. latus squamosus, squamae sat crassae leves (juniora rotundata) varie crenulatae undulatoque flexuosae circa 0.1 mm. latae dense imbricatae, subtus pallide albido-carneae basi nigrantes. Apothecia minuta atra globasa immersa apice solum prominentia in squamis plura; perithecium integre nigrum. Paraphyses indistinctae; sporae 8-nae hyalinae simplices ellipsoideae, 14–19 μ long., 5–6 μ lat. Gelat. hym. I + coerulescit deinque vinose rubet.

ENDOCARPON (EUENDOCARPON) PALLIDUM Ach.—ad saxa calcaria.

VERRUCARIA SPHINCTRINA Duf.—ad saxa calcaria. (C).

ANTHRACOTHECIUM LIBRICOLUM (Fée) Müll. Arg., et A. OCHRACEO-FLAVUM (Nyl.) Müll. Arg.—ad arbores.

TRYPETHELIUM ELUTERIAE Spreng. (C); et var. INAEQUALE (Fée) Müll. Arg.; et T. TROPICUM (Ach.) Müll. Arg.— ad arbores.

Tomasellia Brouardi B. de Lesd., sp. nov. —ad corticem levem, *No. 10812*. Thallus albidus tenuissimus hypophleodes. Apothecia aggregata nigra deplanto-convexa nuda minutissima, primum velamine thallino tectae, maculam rotundam circa 1 mm. lat. vel ellipticam, vel irregulariter elongatam, formantia. Epithecium, thecium et hypothecium incolorata; paraphyses graciles ramoso-conneaxe; asci subpiriformis apice non incrassati 33–54 μ long., 19–24 μ lat.; sporae 8-nae hyalinae oblongae utroque apice obtusae vel uno apice vix attenuatae 1-sept., loculis aequalibus 18–24 μ long., 3.5–4 μ lat. Gelat. hym. I+ lutescit.

DUNKERQUE, FRANCE,

5 JULY, 1921

RICCIOCARPUS NATANS (L.) CORDA, FROM AFRICA

WM. HY. PEARSON

In a small collection of hepatics from Belgian Congo, sent to me to be determined by Dr. R. Naveau of Antwerp, there are specimens of the above species collected by H. Vanderyst, at Misie, Belgian Congo, Sept. 1914; it is var. *terrestris*, distinguished from the type by the shorter, broader, and more rotundate apices of the scales.

Stephani says (Sp. Hep. p. 55) that the species, although of world-wide distribution—Tonkin, Japan, Brazil, Australia, New Zealand, Mexico, China—had not been recorded from Africa. In the Manchester Museum there are specimens collected by Krause, at Port Natal, in 1840.

In my study of the Congo material I had occasion to examine the rich collection of the genus in the Manchester Museum, which includes the Austin